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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,851	10/30/2003	Thomas Peterffy	30894-101	9758
26486 7590 10/02/2007 BURNS & LEVINSON, LLP 125 SUMMER STREET BOSTON, MA 02110			EXAMINER SHRESTHA, BIJENDRA K	
			ART UNIT 3691	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/697,851	Applicant(s) PETERFFY ET AL.	
	Examiner Bijendra K. Shrestha	Art Unit 3691	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/30/2003 and 09/06/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Acknowledgement is made of applicant's claim for priority to Provisional Application 60/422,408 filed on 10/30/2002 under 35 U.S.C. 119(e).

Claim Objections

2. Claim 10 rejected as claim recitation contains typo error with words "an order" repeated. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being unpatentable by Madoff et al., U.S. Patent No. 7,162,448 (reference A in attached PTO-892).
5. As per claim 1 and 7, Madoff et al. teach a processor for electronic trading of financial instruments (see Fig. 1, Sever (21)) comprising:

(a) a receiver for information messages from market participants that bid for purchase or offer for sale of a financial instrument (see Fig. 1, Order Entry Side (12) and Order Response Side (14); column 3, lines 44-52), said receiver time-stamping received information messages (see Fig. 11, Time Stamp (132); column 1, lines 64-65)

(b) an electronic order book (see Fig. 1; column 4, lines 5-12; where order and response entry is stored in the server memory which Examiner interprets as an electronic order book);

(c) an updater communicating with said receiver and said electronic order book for qualifying and parsing price, size and time-stamp bid or offer data from information messages received on said receiver and entering said parsed data on said electronic order book with priority tracked by instrument in price and time-stamp of a received and qualified message (see Fig. 2, Order (30); column 5, lines 26-42);

(d) a transmitter communicating with said electronic order book for display to market participants anonymous data entered on said electronic order book (see Fig. 9A-9C; column 7, lines 40-48);

(e) a price improvement period timer communicating with said updater

(i) initiated upon receipt by said receiver of an information message from a qualified market participant containing a bid or offer at or better than a preset price improvement over the best bid or offer prevailing across multiple markets for a particular instrument (see Fig. 2; column 5, lines 53-67 to column 6, lines 1-3) and

(ii) terminated upon an elapsing of a preset price improvement period time less than a minute and commensurate with market risk (see column 6, lines 13-17); and

(f) a transaction executor communicating with said price improvement period timer and said electronic order book for allocating and executing upon said termination matches of bids or offers for said particular instrument, data for which are entered on said electronic order book, against market offers or bids in said order, subject to a partial time priority for said qualified market participant, and updating said electronic order book accordingly (see Fig. 2 to Fig. 8)).

6. As per claim 2, Madoff et al. teach claim 1 as described above. Madoff et al further teach the processor wherein

said best bid or offer prevailing across multiple markets is the best bid or offer on a national market (see Fig. 1; Fig. 3, column 6, lines 49-66).

7. As per claim 3, Madoff et al. teach claim 2 as described above. Madoff et al further teach the processor wherein

said preset price improvement and increments in subsequent bids or offers during said price improvement are finer increments than those reported for best bids and offers on said national market (see Fig. 8).

8. As per claim 4, Madoff et al. teach claim 2 as described above. Madoff et al further teach the processor wherein

said preset price improvement period is three seconds (see column 4, lines 55-65).

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9. As per claim 5 and 8, Madoff et al teach the processor wherein
said qualified market participant is a non-market-maker broker-dealer (see
column 9, lines 47-48) and said qualified market participant receives time priority for
forty percent by size of any remaining allocation at said qualified market participant's
best price (see column 9, lines 26-46).

10. As per claim 6 and 9, Madoff et al teach the processor wherein
a market maker bidding or offering at the national best bid or offer at the
commencement of said price improvement period receives time priority for one-third by
size of any remaining allocation at said qualified market participant's best price after
said qualified market participant's allocation at that or better price (see column 9, lines
25-46).

11. As per claim 10, Madoff et al. teach a computer program product for conducting a
fast price improvement auction of financial instruments traded across national markets
(see Fig. 1), said computer program product residing on a computer-readable medium
comprising instructions for causing a computer to:

receive an order an order specifying the commencement of a price-improvement
auction with better price than the prevailing price across national markets, commence
and conduct an auction with a time duration of greater than zero and less than ten
seconds where bids or offers are matched with contra market orders or bids according
to an allocation at the best price first and within each price level by time of receipt, with
a share of any allocation at the best price level received from a market participant

commencing said price-improvement auction reserved to said market participant (see Fig.2; column 5, lines 27-42, 53-62).

12. As per claim 11 and 17, Madoff et al. teach a process for electronic trading of financial instruments (equity option contract) comprising the steps of:

(a) receiving an information message that bids for purchase of or offers for sale a financial instrument ; (b) entering on an electronic order book data parsed from said information message where said information message bids for purchase of or offers for sale a financial instrument at price at or better than a preset price improvement over the best national bid or offer; (c) initiating a price improvement period timer upon receipt of the first said bid or offer at or better than said preset price improvement (see Fig. 2; column 5, lines 26-34);

(d) receiving and information messages and entering according to steps (a) and (b) until the elapsing of a preset price improvement period time (see Fig. 2; column 5, lines 43-59);

(e) allocating and executing, upon the said elapsing of said preset price improvement period time, matches of bids or offers for a particular equity option contract, data for which are entered on said electronic order book, in order of best bids or offers and earliest time of receipt at each price level, against market offers or bids, subject to a partial time priority for a qualified market participant from whom was received said information message initiating said price improvement period timer (see Fig. 2; column 5, lines 59-67 to column 6, lines 1-12).

13. As per claim 12, Madoff et al. teach claim 11 as described above. Claim 12 is rejected under same rational as claim 2 described above.

14. As per claim 13, Madoff et al. teach claim 12 as described above. Claim 13 is rejected under same rational as claim 3 described above.

15. As per claim 14, Madoff et al. teach claim 13 as described above. Claim 14 is rejected under same rational as claim 4 described above.

16. Claims 15 and 18 are rejected under same rational as claim 5 described above.

17. Claim 16 and 19 are rejected under same rational as claim 6 described above.

18. As per claim 20, Madoff et al. teach a method for conducting a fast price improvement auction of financial instruments traded across national markets (see Fig. 1) comprising the steps of:

receiving an order from a qualified market participant specifying the commencement of a price-improvement auction with better price than the prevailing price across national markets (see Fig. 2; column 5, lines 27-36)

commencing an auction with a time duration of greater than zero and less than ten seconds in which improved bids or offers are received (see Fig. 2; column 5, lines 32-42); and

at the termination of said auction, mating with contra market orders or bids according to an allocation at the best price first and within each price level by time of receipt, with a share of any allocation remaining at the best price level of said market

participant commencing said price-improvement auction reserved to said market participant (see Fig. 2; column 5, lines 53-67 to column 6, lines 1-12).

Conclusion

19. The prior art made of record and not relied upon is considered pertinent to applicant's disclosures. The following are pertinent to current invention, though not relied upon:

Allen et al.(U.S. Pub No. 2002/0138401) teach method and system for automatic execution of a securities transaction.

Gary (U.S. Patent No. 6,618,707) teaches automated exchange for trading derivative securities.

Keith (U.S. Pub No. 2001/0042040) teaches routing control for orders eligible for multiple markets.

Klein (U.S. Pub No. 2002/0194105) teaches process of and system for trading securities and option and markets related thereto.

Lutnick et al. (U.S. Patent No. 6,850,907) teach automated price improvement protocol processor.

Gamber et al. (U.S. Pub No. 2003/0177086) teach integrated order pre-matching system.

Madoff et al. (U.S. Patent No. 7,099,839) teach opening price process for trading system.

Madoff et al. (U.S. Pub No. 2001/0044767) teach auction market with price improvement mechanism.

Rosenblatt et al. (U.S. Pub No. 2003/0120585) teach confidential electronic trading and matching system incorporating execution via an auction market.

Schmitz et al. (U.S. Pub No. 2003/0004858) teach automated execution system having participation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bijendra K. Shrestha whose telephone number is (571) 270-1374. The examiner can normally be reached on 7:00 AM-4:30 PM (Monday-Friday); 2nd Friday OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on (571) 272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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